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BUB/CTE/2014-15/ **Date: 19-03-2015**

1. TESTING OF FINE AGGREGATES:

Sub: Testing of Fine Aggregates.
{Project*: Improvements Roads and Construction of Culvert in Singapura Layout from Military Compound to Varadarajaswamy Layout in Ward No. 11 (Change of Work and Place: Construction of Samudaya Bhavan to Senior Citizen near Hopcoms, Vidyaranyapura in Ward No. 09 Vidyaranyapura Sub division.}
Ref.: Letter No. AEE/BBMP/VSD/PR/344/2014-15, dated 16-03-2015
Sample supplied to lab by : Assistant Executive Engineer
Vidyaranyanapura Sub-Division
BBMP, Bangalore.
Name of the Contractor/ Agency*: Sri Hemadhri Reddy.

TABLE - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	98.90	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	79.80	60-95	75-100	85-100	
01.18	64.20	30-70	55-90	75-100	
600. mic	47.50	15-34	35-59	60-79	
300.mic	17.60	5-20	8-30	12-40	
150.mic	3.00	0-10	0-10	0-10	

TABLE 1.2 ;

Sl No	Test Conducted	Sample	Results	Requirements as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Silt Content	001	1.58 %	Not more than 8%
2.	Specific Gravity	----	2.60	-------

*As furnished by Client.
The Results relate only to the items tested.

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ವಿದ್ಯಾರಣ್ಯಪುರ ಉಪ ವಿಭಾಗ
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JNANA BHARATHI
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BUB/CTE/2014-15/ **Date: 25-03-2015**

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements Roads and Construction of Culvert in Singapura Layout from Military Compound to Varadarajaswamy Layout in Ward No. 11 (Change of Work and Place: Construction of Samudaya Bhavan to Senior Citizen near Hopcoms, Vidyaranyapura in Ward No. 09 Vidyaranyapura Sub division.}

Ref.: Letter No. AEE/BBMP/VSD/PR/344/2014-15, dated 16-03-2015

Sample supplied to lab by : Assistant Executive Engineer
Vidyaranyanapura Sub-Division
BBMP, Bangalore.

Name of the Contractor/ Agency*: Sri Hemadhri Reddy.

PHYSICAL TESTS ON CEMENT

Brand* : Birla Super Grade *: 53
Type * : OPC
Date : 17-03-2015 to 24-03-2015

SL No	Name of Test	Results	Requirements as per
		Cement Sample	IS 12269-1987
1	Initial setting time	**140 min**	Shall not be less than 30 min
2	Final setting time	**245 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.12 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**1.54 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results) b) 7 days (average of three results)	**28.94 N/ Sq mm** **43.19 N/Sq mm**	Shall not be less than 27 N/Sqmm Shall not be less than 37N/Sqmm

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BUB/CTE/2014-15/ **Date: 19-03-2015**

1. TESTING OF COARSE AGGREGATES (40 mm):

Sub: Testing of Coarse Aggregates.

{Project*: Improvements Roads and Construction of Culvert in Singapura Layout from Military Compound to Varadarajaswamy Layout in Ward No. 11 (Change of Work and Place: Construction of Samudaya Bhavan to Senior Citizen near Hopcoms, Vidyaranyapura in Ward No. 09 Vidyaranyapura Sub division.}

Ref.: Letter No. AEE/BBMP/VSD/PR/344/2014-15, dated 16-03-2015

Sample supplied to lab by : Assistant Executive Engineer
Vidyaranyanapura Sub-Division
BBMP, Bangalore.

Name of the Contractor/ Agency*: Sri Hemadhri Reddy.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	40 mm Sample	*Single size*	*Graded*
40mm	99.00	85-100	95 – 100
20mm	51.40	0 -20	30- 70
10mm	23.70	0 -5	10- 35
4.75mm	Nil	------	0 - 5

TABLE 1 2 :

SL No	Test conducted	Sample No	Results	Requirements as per IS:383-1970 & Test Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	As above	16.00 %	Not to exceed 25 %
2.	Crushing value	----,,----	23.84 %	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

*As furnished by Client.

The Results relate only to the items tested.

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ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
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BUB/CTE/2014-15/ **Date: 19-03-2015**

1. TEST REPORT ON REINFORCEMENT STEEL :

Sub: Testing of Reinforcement Steel of diameter 10mm.
{Project*: Improvements Roads and Construction of Culvert in Singapura Layout from Military Compound to Varadarajaswamy Layout in Ward No. 11 (Change of Work and Place: Construction of Samudaya Bhavan to Senior Citizen near Hopcoms, Vidyaranyapura in Ward No. 09 Vidyaranyapura Sub division.}

Ref.: Letter No. AEE/BBMP/VSD/PR/344/2014-15, dated 16-03-2015
Sample supplied to lab by : Assistant Executive Engineer
Vidyaranyanapura Sub-Division
BBMP, Bangalore.
Name of the Contractor/ Agency*: Sri Hemadhri Reddy.

TABLE – 1

		For 10 mm	
SL No	**Details**	**Test Results**	Req as per IS 1786-2008
01	Observed diameter of bar	**10.0 mm**	10.0 mm
02	Observed Wt/m Length **Kg/m**	**0.621**	0.567
03	Proof stress/Yield stress, fy , **N/mm^2**	**558.0**	500.0
04	Bend/ Re bend Test	**Ok**	---
05	Percentage of Elongation, %	**20.2**	12.00
06	Ultimate Tensile Strength **N/mm^2**	**628.0**	545.0

*As furnished by Client.
The Results relate only to the items tested.

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BUB/CTE/2015-16/ **DATE: 23-04-2015**

1. TEST REPORT ON CEMENT CONCRETE CUBES :

Sub: Testing of Concrete Cubes (28 days Compressive Strength)
{Project*: Improvements Roads and Construction of Culvert in Singapura Layout from Military Compound to Varadarajaswamy Layout in Ward No. 11 (Change of Work and Place: Construction of Samudaya Bhavan to Senior Citizen near Hopcoms, Vidyaranyapura in Ward No. 09 Vidyaranyapura Sub division.}

Ref.: Letter No. AEE/BBMP/VSD/PR/344/2014-15, dated 22-04-2015

Sample supplied to lab by : Assistant Executive Engineer
Vidyaranyanapura Sub-Division
BBMP, Bangalore.

Name of the Contractor/ Agency*: Sri Hemadhri Reddy.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{20}

TABLE 1.1 :

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in Mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	25-03-15	22-04-15	28	22500	510	22.66	**22.36**
	002	"	"	"	"	495	22.00	
	003	"	"	"	"	505	22.44	

*As Furnished by Client.

The Results relate only to the items tested.

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